

Special Issue

Recent Advances in Kidney Disease Imaging

Message from the Guest Editors

In recent years, there have been great advances in kidney imaging, allowing assessments of kidney structure and morphology, perfusion, function and metabolism, oxygenation, and microstructure. This is becoming increasingly important in the evaluation of kidney physiology and pathophysiology, showing promise in the management of patients with kidney disease, in particular concerning diagnosis, classification, and prediction of disease development and progression, monitoring response to therapy, detection of drug toxicity, and patient selection for clinical trials. A variety of imaging modalities are currently available to provide quantitative measures of the kidney both spatially and temporally. The current Special Issue aims to collect together recent advances in key imaging techniques that are currently available or potentially relevant to image kidney disease, excluding oncological applications. We hope this Special Issue will raise awareness among clinicians of a range of promising imaging tools that in the short to long term are expected to help improve kidney disease management in clinics.

Guest Editors

Dr. Anna Caroli

Bioengineering Department, Istituto di Ricerche Farmacologiche Mario Negri IRCCS, 24020 Ranica, BG, Italy

Prof. Dr. Nicholas Selby

1. Department of Renal Medicine, Royal Derby Hospital, Derby DE22 3NE, UK

2. Centre for Kidney Research and Innovation, University of Nottingham, Nottingham NG7 2RD, UK

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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